

6CW5

Beam Power Tube

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at 6.3 volts	0.760	amp

Maximum Heater-Cathode Voltage:

Heater negative with respect to cathode:		
Peak	330	volts
DC Component	220	volts

Heater positive with respect to cathode:		
Peak	330	volts
DC Component	220	volts

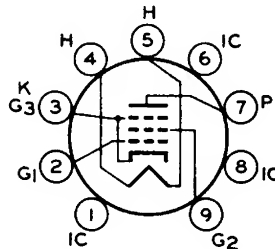
Direct Interelectrode Capacitances:

Input: G1 to (K + G3, G2, H)	13.0	pf
Output: P to (K + G3, G2, H)	6.8	pf
Plate to grid No.1	0.6 max.	pf
Grid No.1 to heater.	0.25 max.	pf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	3-1/16"
Maximum Seated Length	2-13/16"
Length, Base Seat to Bulb Top (Excluding tip)	2-7/16" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline (JEDEC No.6-4)	See General Section
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9CV

- Pin 1—Do Not Use
- Pin 2—Grid No.1
- Pin 3—Cathode, Grid No.3
- Pin 4—Heater
- Pin 5—Heater
- Pin 6—Do Not Use
- Pin 7—Plate
- Pin 8—Do Not Use
- Pin 9—Grid No.2



AMPLIFIER — Class A₁

Characteristics:

Plate Voltage.	170	volts
Grid-No.2 (Screen-Grid) Voltage.	170	volts
Grid-No.1 (Control-Grid) Voltage.	-12.5	volts
Mu-Factor, Grid No.2 to Grid No.1.	8	
Plate Resistance (Approx.)	26000	ohms
Transconductance	11000	μmhos
Plate Current.	70	ma
Grid-No.2 Current.	3.5	ma



RADIO CORPORATION OF AMERICA
Electronic Components and Devices Harrison, N. J.

DATA
5-65

6CW5

Maximum Ratings, Design-Maximum Values:

Plate Supply Voltage	600	volts
Plate Voltage.	275	volts
Grid No.2 Supply Voltage	600	volts
Grid No.2 Voltage.	220	volts
Average Cathode Current.	110	ma
Grid No.2 Input:		
Peak	7	watts
Average.	2.1	watts
Plate Dissipation.	14	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	1 megohm
--	----------

VERTICAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^a

DC Plate Voltage	275	volts
Peak Positive-Pulse Plate Voltage.	2200 ^b	volts
DC Grid-No.2 Voltage	275	volts
Peak Negative-Pulse Grid-No.1 Voltage.	250	volts
Cathode Current:		
Peak	240	ma
Average.	110	ma
Grid No.2 Input.	2.1	watts
Plate Dissipation.	12	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	2.2 megohms
--	-------------

^a As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^b Maximum pulse duration 6 percent of a cycle with a maximum of 1.2 milliseconds.

